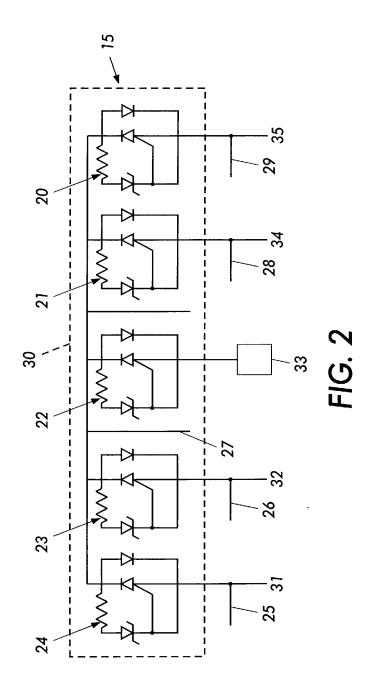
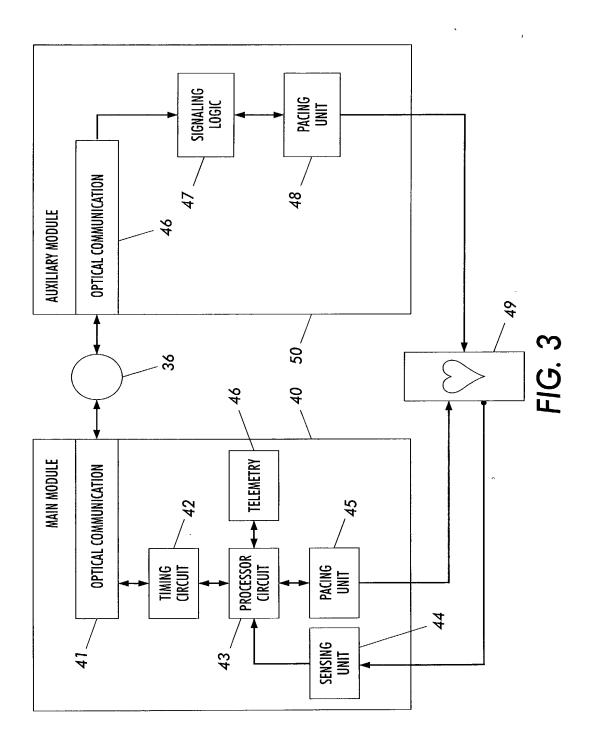


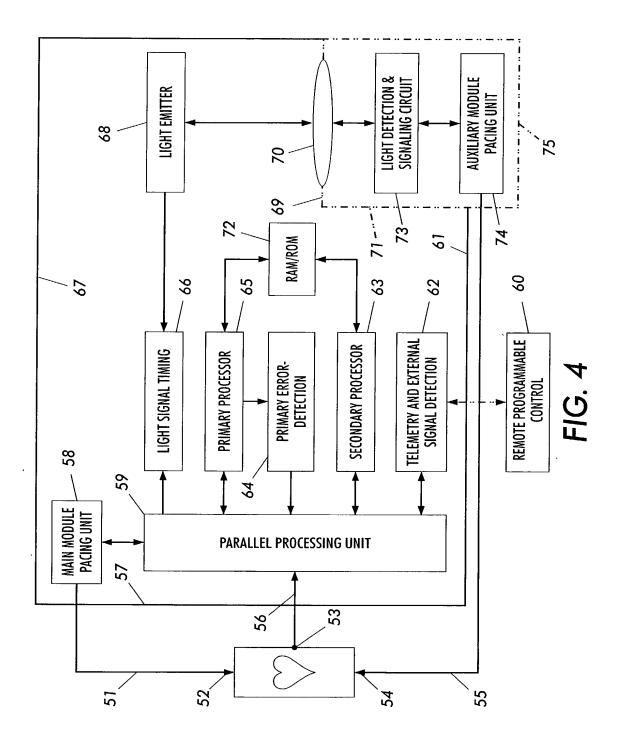
FIG. 1

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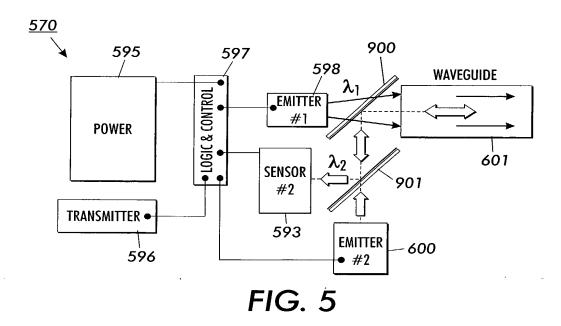


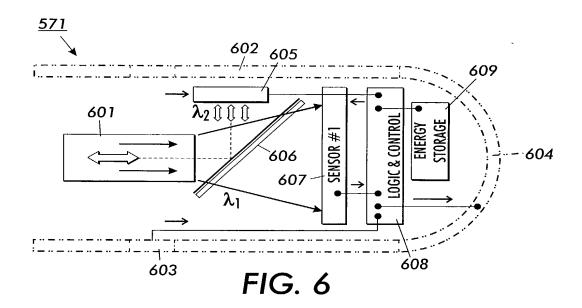
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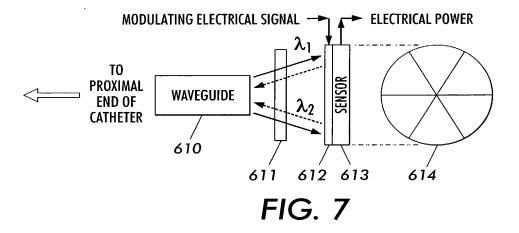


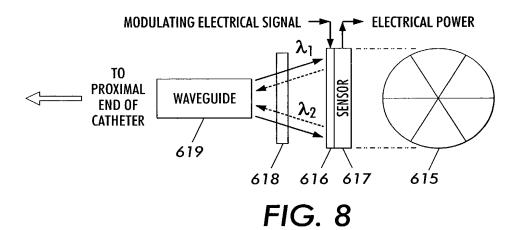


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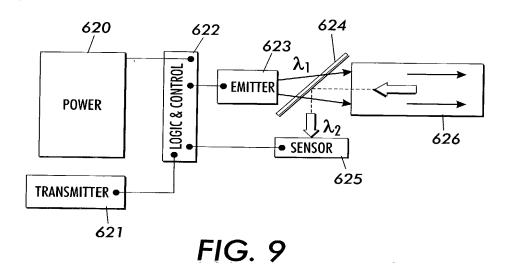








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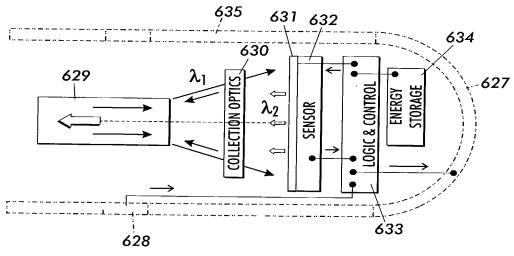


FIG. 10

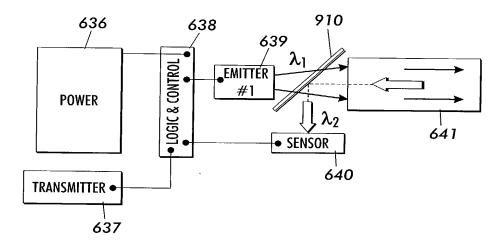
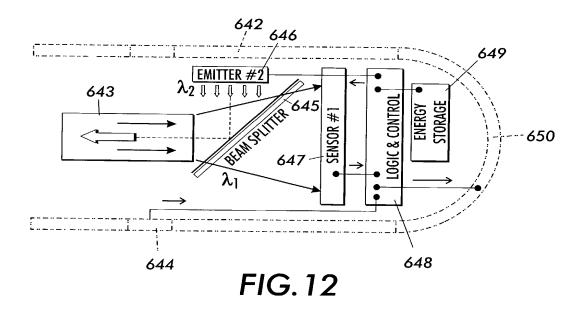
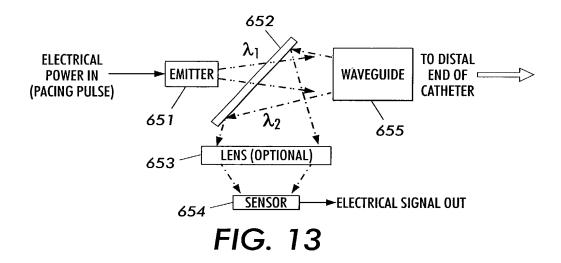


FIG. 11





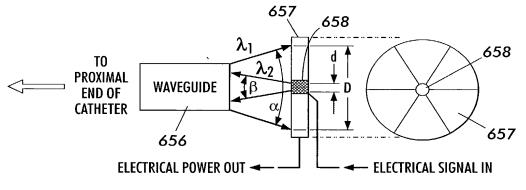


FIG. 14

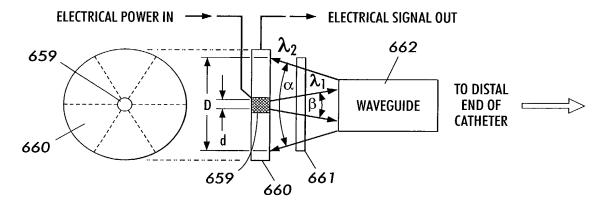


FIG. 15

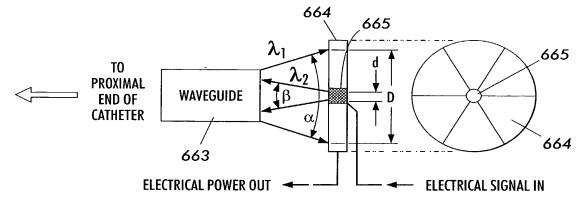
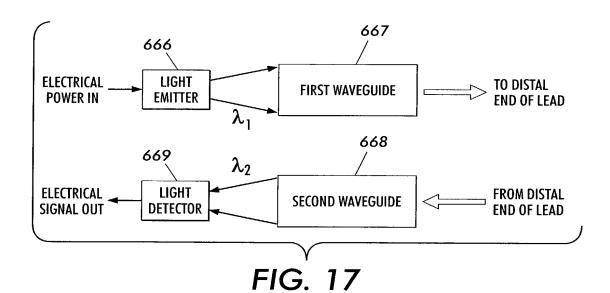
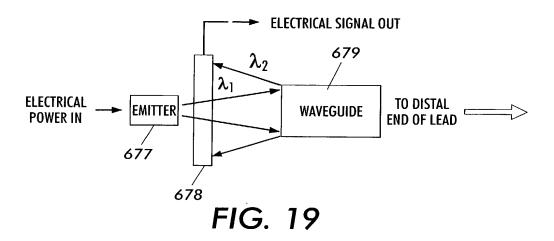


FIG. 16



671 670  $\lambda_1$ FROM PROXIMAL END OF LEAD FIRST WAVEGUIDE **ELECTRICAL POWER OUT** 673 672  $\lambda_2$ TO PROXIMAL LIGHT **ELECTRICAL SECOND WAVEGUIDE END OF LEAD EMITTER** SIGNAL IN FIG. 18



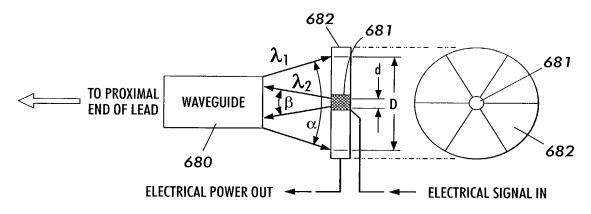


FIG. 20

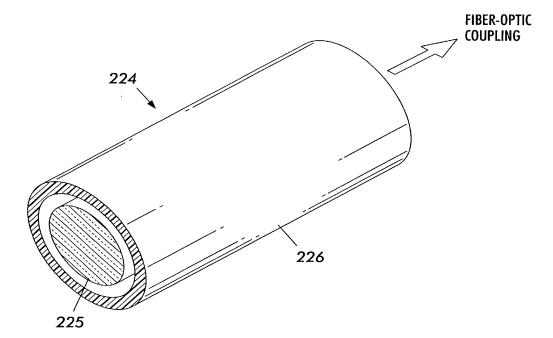


FIG. 21

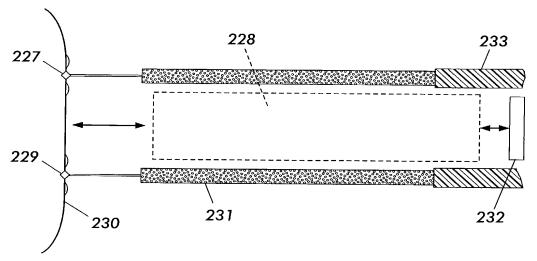


FIG. 22

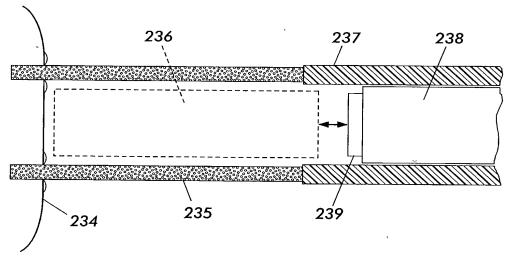


FIG. 23

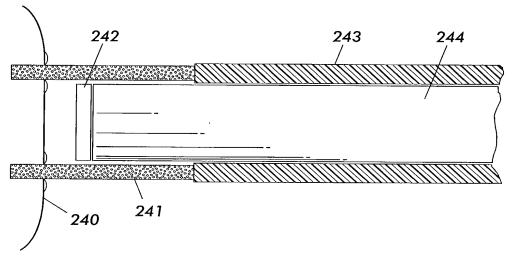


FIG. 24

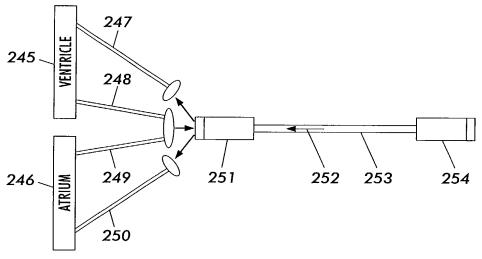


FIG. 25

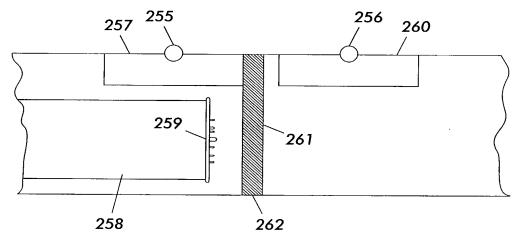
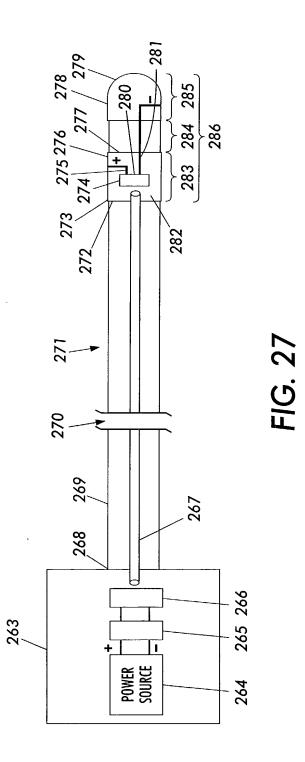


FIG. 26



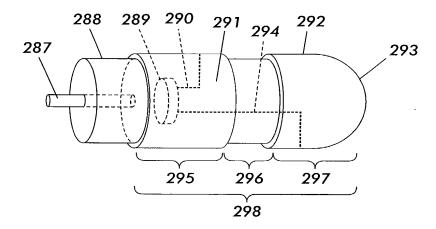
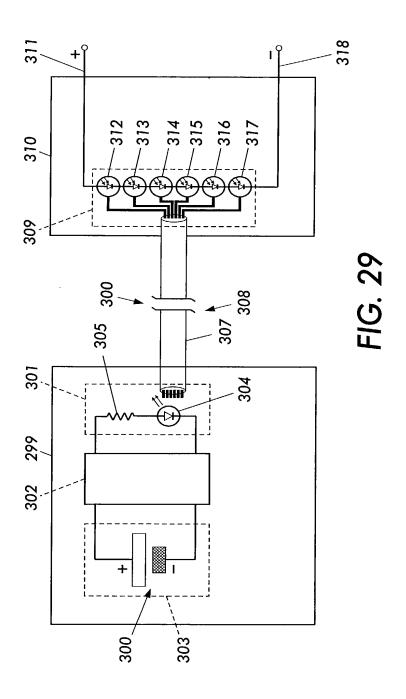
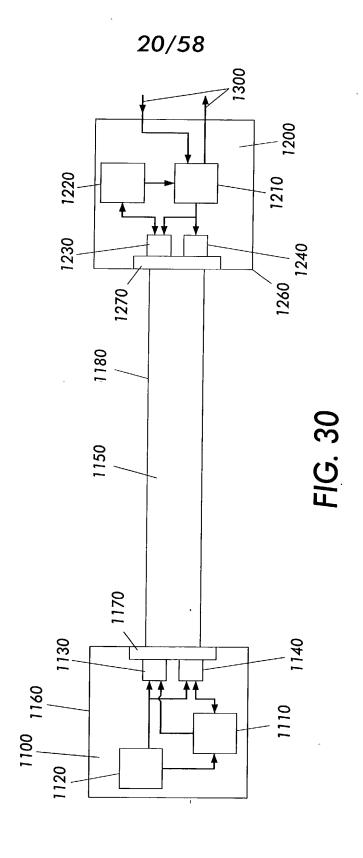


FIG. 28

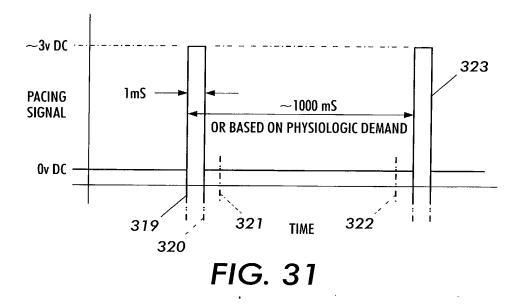
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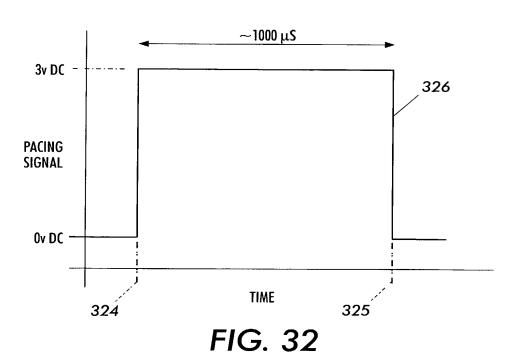


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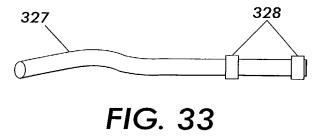


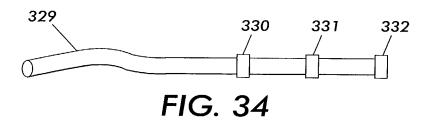
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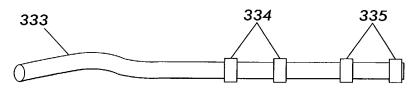


FIG. 35

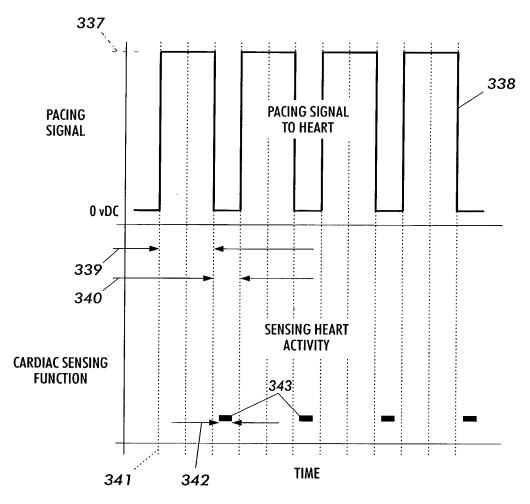


FIG. 36

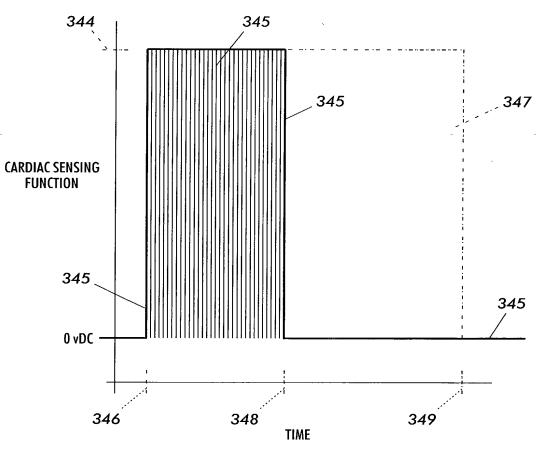


FIG. 37

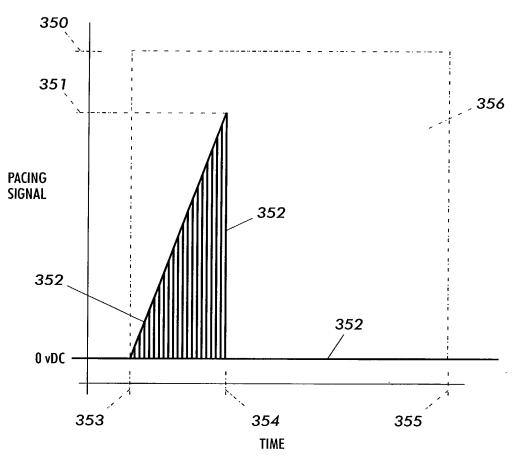


FIG. 38

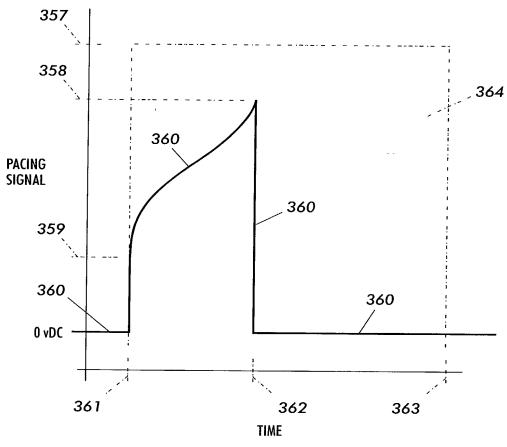
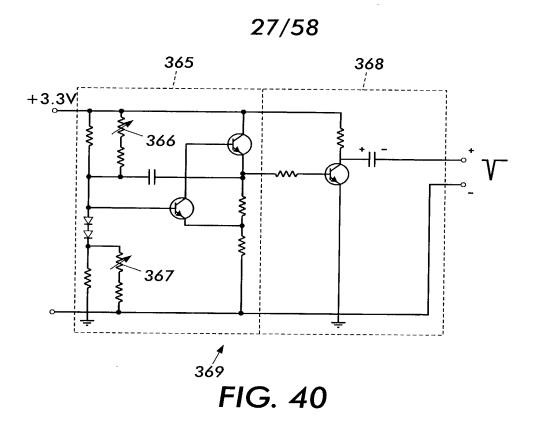
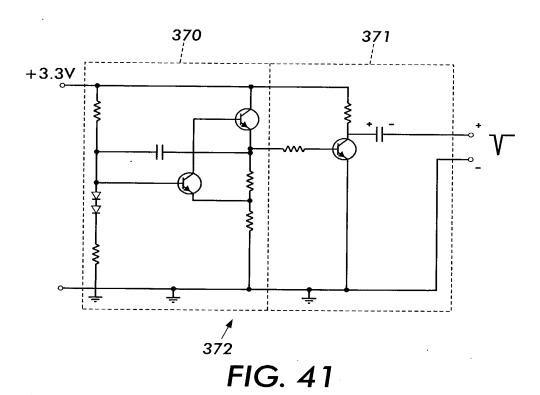
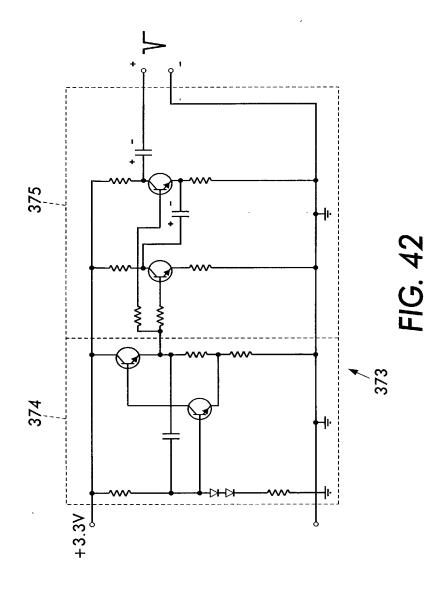


FIG. 39







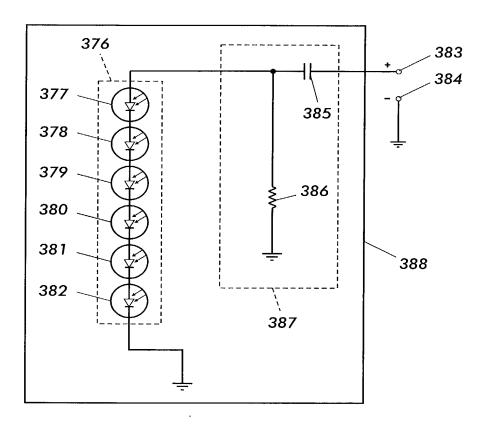


FIG. 43

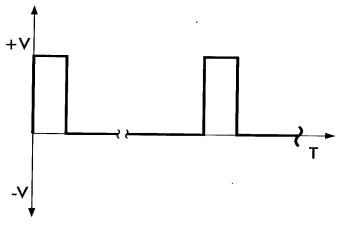


FIG. 44

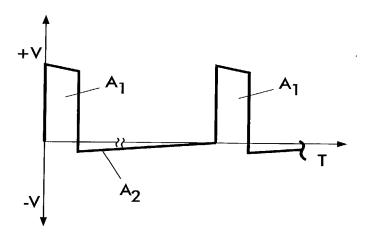


FIG. 45

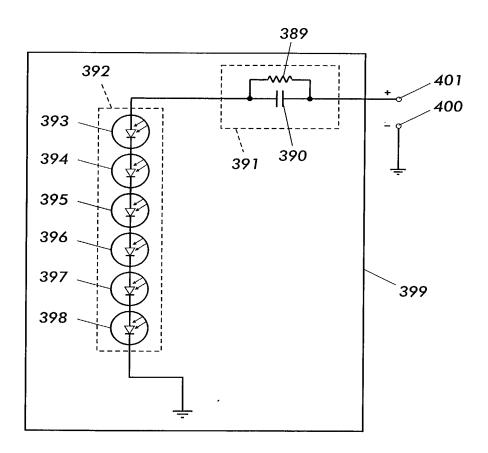


FIG. 46

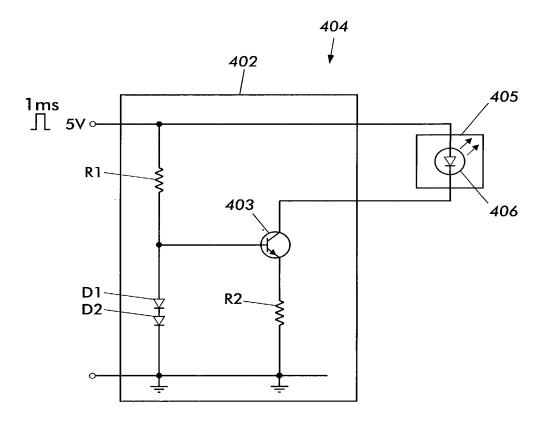
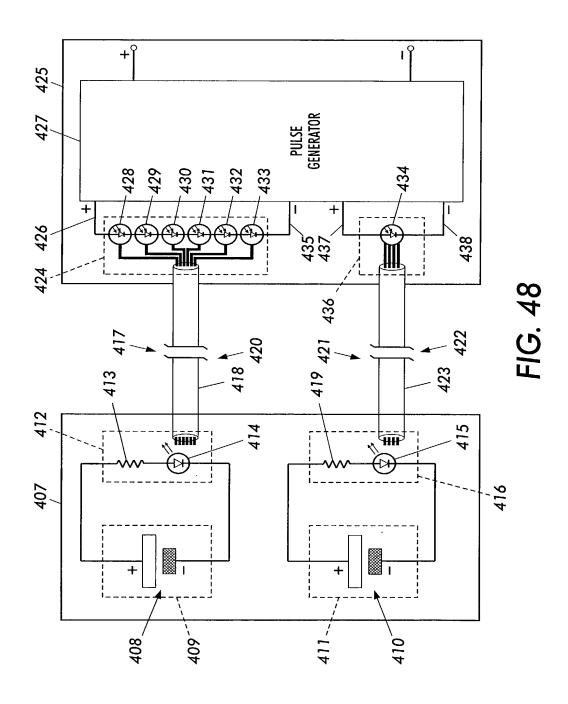
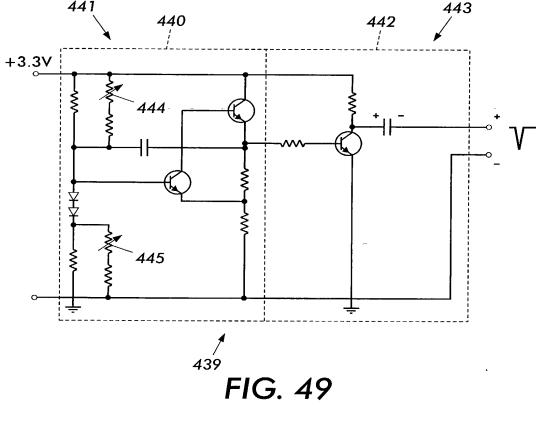
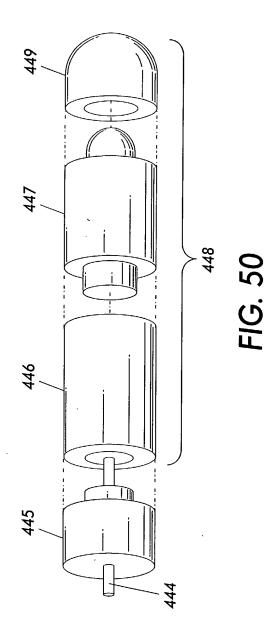


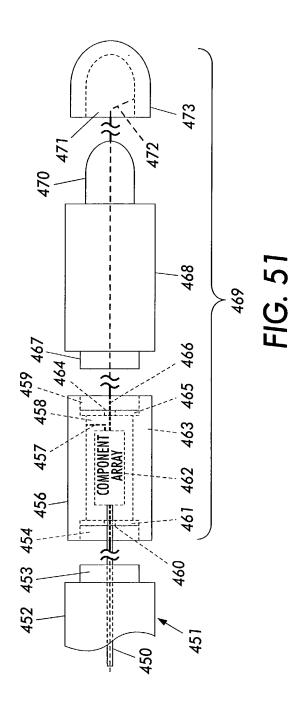
FIG. 47



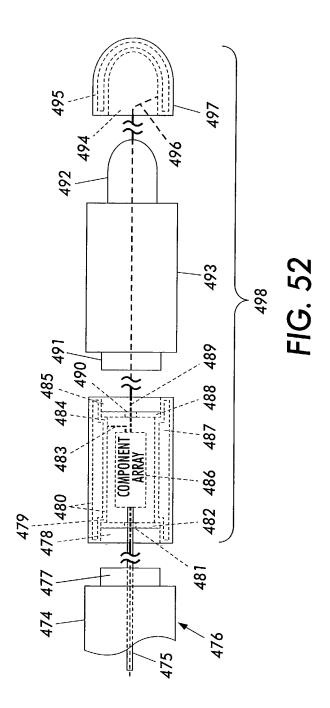


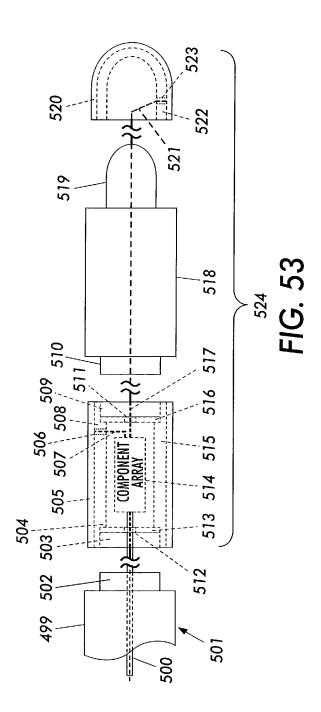
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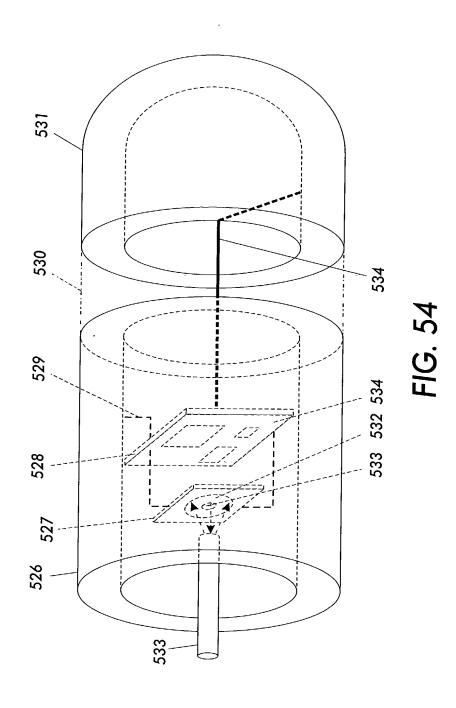


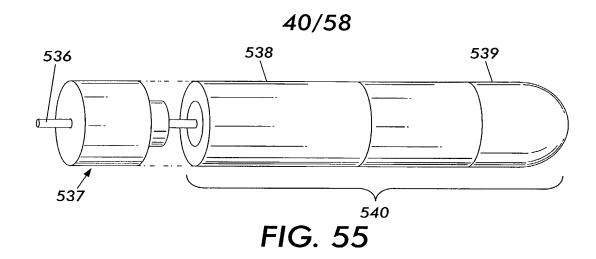


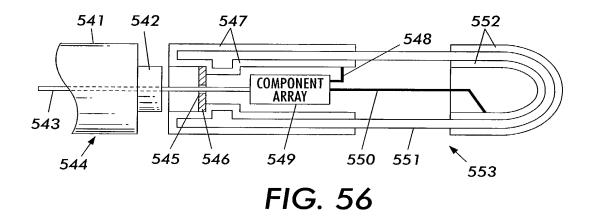
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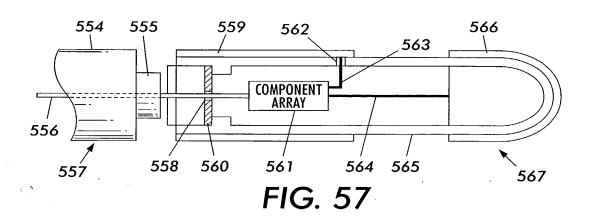


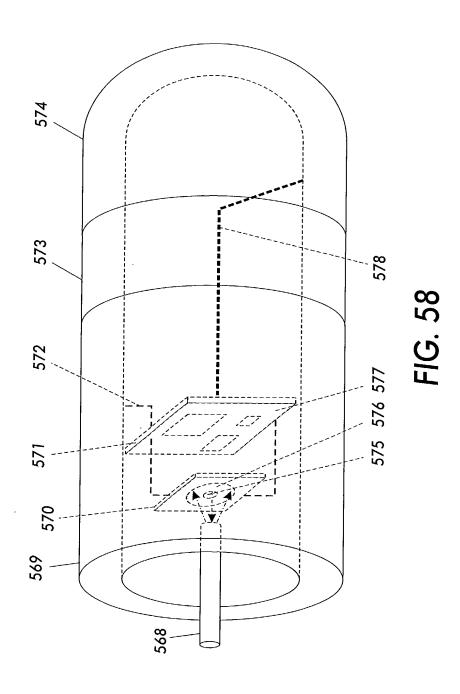






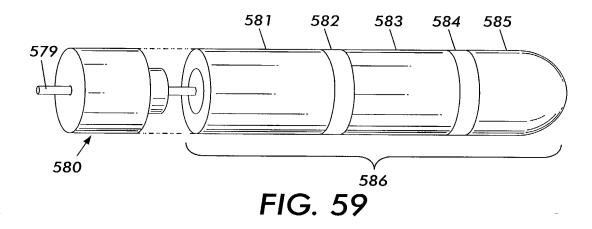


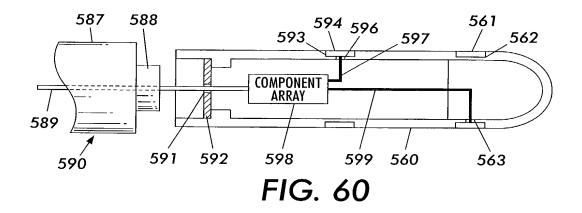


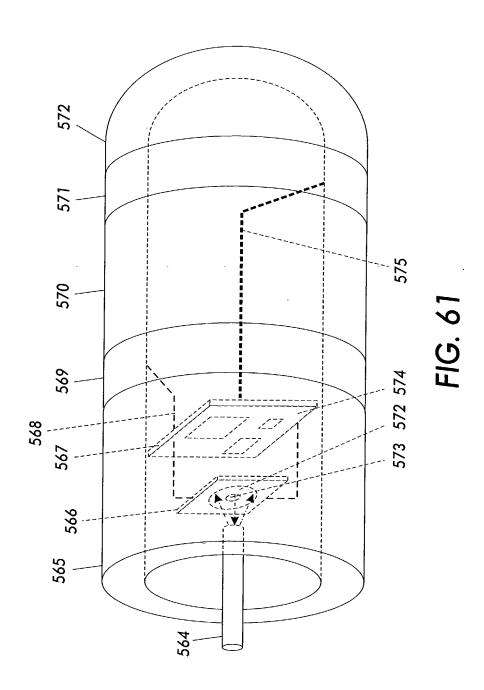


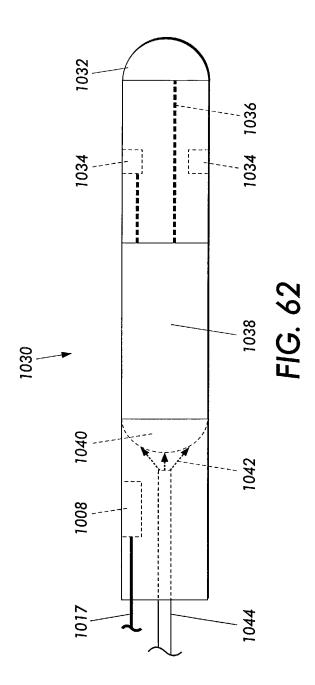
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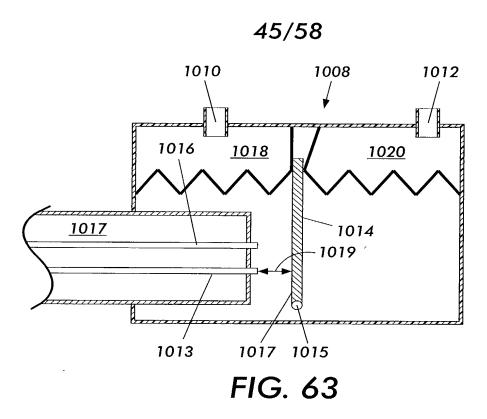


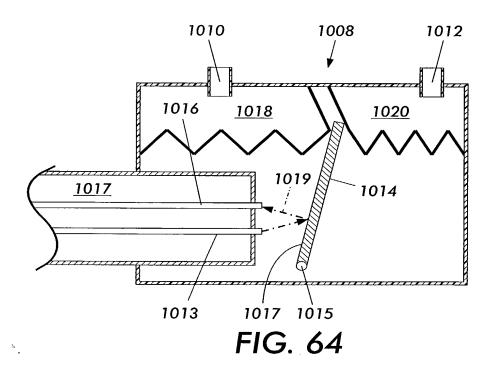




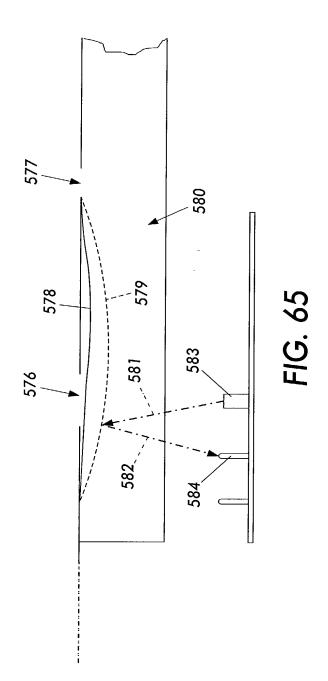


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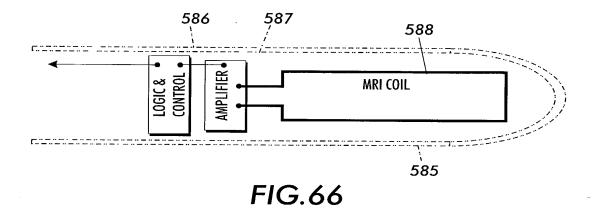


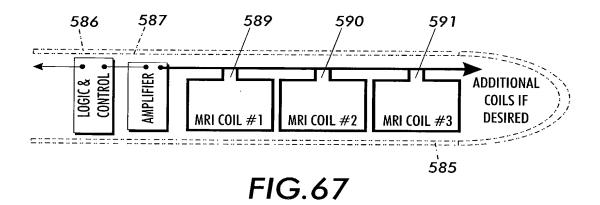
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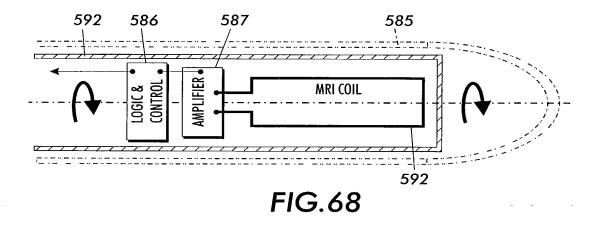
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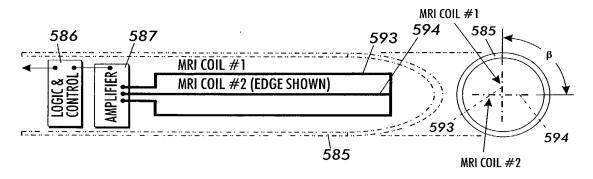
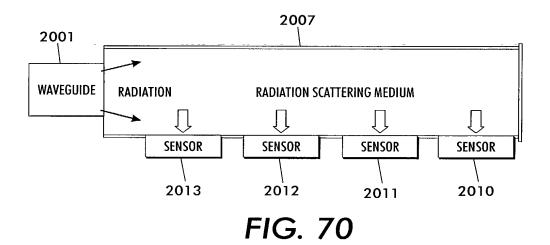


FIG.69



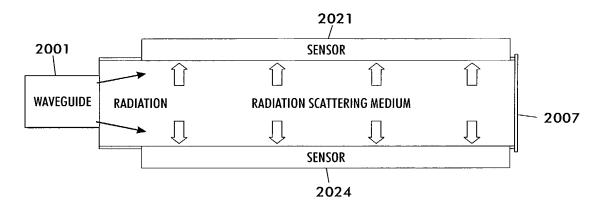
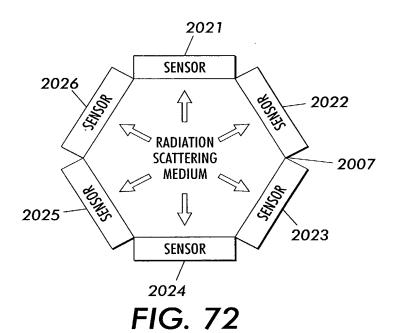


FIG. 71



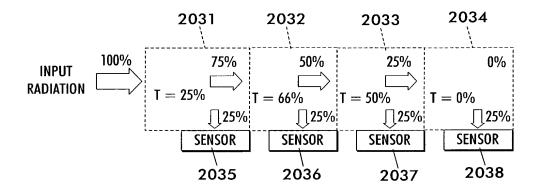
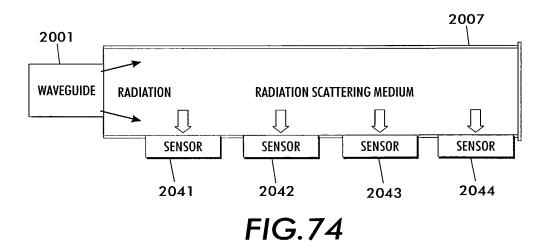


FIG.73



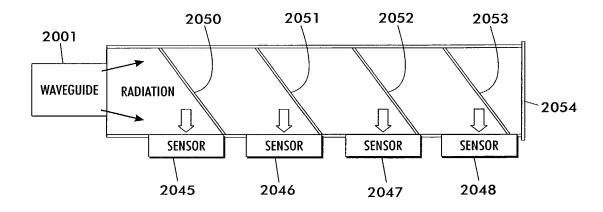


FIG.75

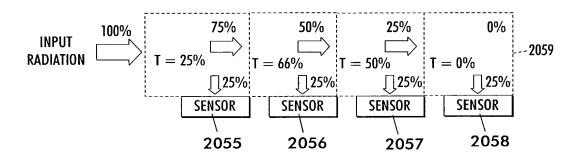
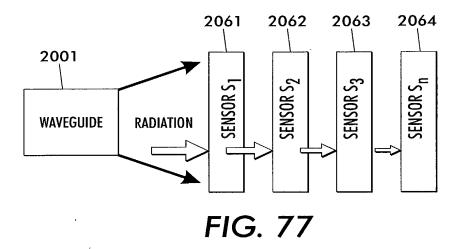


FIG.76



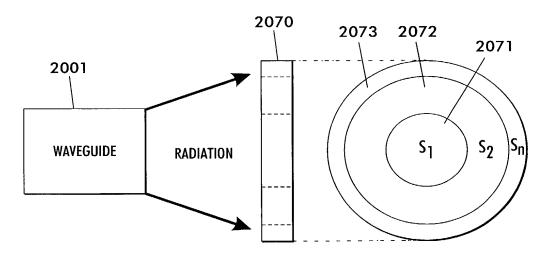


FIG. 78

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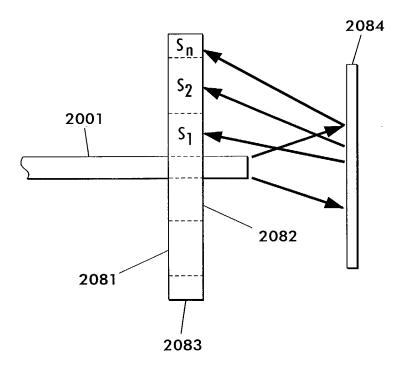


FIG. 79

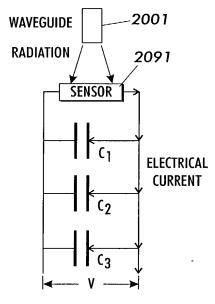


FIG.80

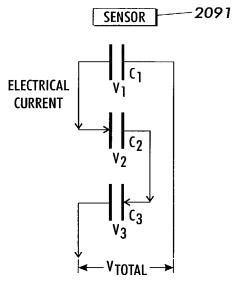
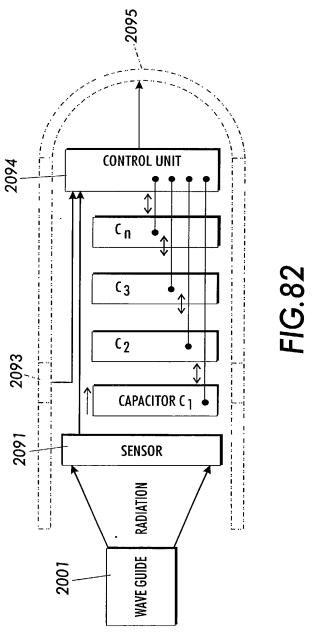
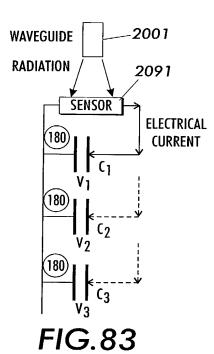
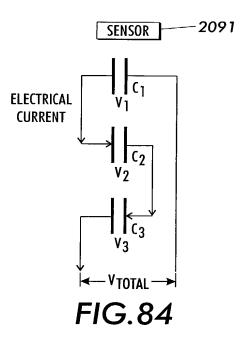


FIG.81

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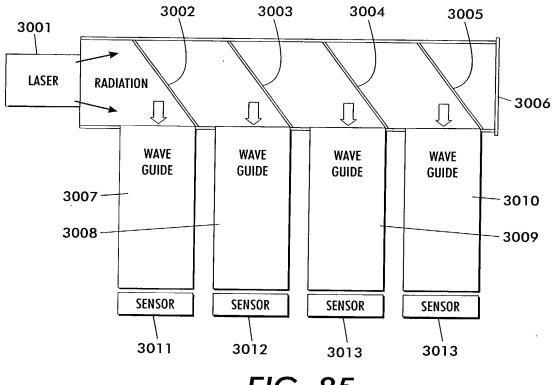


FIG. 85